APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

YANCHENKO, Stepan Yefimovich; BEREZKIN, Yu.I., red.; BELEN'KAYA, I.ye., tekhn. red.

[Capital exports; textbook] Vyvoz kapitala; uchebnoe posobie. Minsk, Izd-vo Belgosuniv. im. V.I.Lenina, 1961. 49 p. (MIRA 15:1)

(Investments, Foreign)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

KUDRYAVITSKIY, Isaak Borisovich; IGNATENKO, Illarion Mefodiyevich; PROKHOROV, Viktor Vasil'yevich; BEREZKIN, Yu.I., red.; SOSINOVICH, A.I., tekhn. red.

[The struggle of workers in Gomel' Government for the reconstruction of the national economy in 1921-1925] Trudiashchiesia Gomel'skoi gubernii v bor'be za vosstanovlenie narodnogo khoziaistva, 1921-1925 gg. Pod red. I.Ignatenko. Minsk, Izd-vo Belgosuniversiteta im. V.I.Lenina, 1961. 77 p. (MIRA 15:1)
(Gomel' Government--Reconstruction)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

ALEKSEYEV, Valentin Nikolayevich ; BEREZKIN, Yu.I., red.; BELEN'KAYA, I.Ye., tekhn. red.

[Accumulation of capital and the impoverishment of the proletariat, an account of Marxist-Leninist theory] Nakoplenie kapitala i obnishchanie proletariata; ocherk marksistsko-leninskoi teorii. Minsk, Izd-vo Belgosuniversiteta im. V.I.Lenina, 1960. 241 p.
(MIRA 14:12)

(Economics)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

ZABELLO, Z.I.; PEKKER, M.Z.; BEREZKIN, Yu.I., red.; KISLYAKOVA, M.N., tekhn. red.

[Expediency in the plant kingdom] TSelesoobraznost' v rastitel'nom mire. Minsk, Izd-vo M-va vysshego, srednego spetsial'nogo i professional'nogo obrazovaniia BSSR, 1962. 101 p. (MIRA 16:11)
(Botany--Philosophy)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, Yu.I., inzh.

Device for installing brush holders. Elek. i tepl. tiaga 4 no.10: 30 O '60. (MIRA 13:10)

1. Motorvagonnoye depo Leningrad-Finlyandskiy.
(Electric railway motors) (Brushes, Electric)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, Yu. I., inzh. (stantsiya Vyborg, Oktyabr'skoy dorogi)

Improved switch detector bar. Put' i put.khoz. 5 no.2:35 F '61. (MIRA 14:3)
(Railroads--Switches)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, Yu., starshiy inzh.

In Lenin's city. Izobr.i rats. no.2:40 F '61. (MIRA 14:2)

1. Byuro sodeystviya ratsionalizatsii i izobretatel'stvu, g. Leningrad.
(Leningrad—Railroads—Technological innovations)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, Ye.N. (Moskva)

Stability of undisturbed motion of a mechanical system.
Prikl. mat. i mekh. 23 no.3:606-610 My-Je '59.
(MIRA 12:5)

(Motion)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

SOV/112-58-3-4292

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1958, Nr 3, p 125 (USSR)

AUTHOR: Berezkin, Ye. N.

TITLE: Some Problems of Stability of Motion
(Nekotoryye voprosy ustoychivosti dvizheniya)

PERIODICAL: Vestn. Mosk. un-ta, 1956, Nr 1, pp 23-31

ABSTRACT: Various cases are considered of defining the functions $f(x)$, $\varphi(x)$, $F(x)$, etc., in the differential equations of a perturbed motion $dx/dt = y(1 + f(x))$; $dy/dt = \varphi(x) + yF(x) + y^2\Phi(x) + \ldots$ assuming that in any of the above cases the indicial equation in the first approximation

$$\begin{bmatrix} -x & 1 \\ 0 & -x \end{bmatrix} = x^2 = 0$$

has a double zero root. Using in some cases Chetayev's instability theorem or in other cases Lyapunov's functions, the author solves the stability problem of the motions in question in Lyapunov's sense. Bibliography: 8 items.

M.A.A.

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BEREZKIN, YE. N.

BEREZKIN, YE. N. -"Certain Problems of Stability in the Theory of Automatic Regulation." Moscow Order of Lenin and Order of Labor Red Banner State U imeni M. V. Lomonosov, Moscow, 1955 (Dissertations For the Degree of Candidate of Physicomathematical Sciences)

SO: Knizhnaya Letopis' No. 26, June 1955, Moscow

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

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L 29933-65
ACCESSION NR: AP5004602

2

several types of electronic transitions were established, and the thermal activation energy E_{therm} was compared with the optical activation energy E_{opt}. It was concluded that the semiconducting parameters are determined primarily by the nature of the metal - ligand chemical bond, and not by the crystal structure or superstructure. Orig. art. has: 3 figures, 1 table and 2 formulas.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemical institute); Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova (Moscow state university)

SUBMITTED: 04Aug64 ENCL: 00 SUB CODE: 00, EM

NO REF SOV: 004 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

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L 29933-65 EPF(c)/EPA(s)-2/EWP(j)/EWT(m)/EWP(b)/EWP(t) Pc-4/Pr-4/Pt-10/
Pad IJP(c)/RPL RM/JD/HW
ACCESSION NR: AP5004602 S/0020/65/160/002/0405/0408

AUTHOR: Terent'yev, A.P. (Corresponding member AN SSSR); Vozzhennikov, V. M.; Kolninov, O. V.; Zvonkovz, Z. V.; Rukhadze, Ye. G.; Glushkova, V. P.; Berezkin, V. V.

TITLE: Semiconducting and optical properties of copper, nickel, zinc, and cadmium dithiocarbamates

SOURCE: AN SSSR. Doklady, v. 160, no. 2, 1965, 405-408

TOPIC TAGS: copper dithiocarbamate, nickel dithiocarbamate, zinc dithiocarbamate, cadmium dithiocarbamate, dithiocarbamate semiconducting property, dithiocarbamate optical property, organic semiconductor, chelate electrical property, polychelate conductivity, activation energy

ABSTRACT: This paper is part of a study of a series of chelates and polychelates aimed at determining the dependence of their electrical properties on their atomic structure and nature of their chemical bonds: this in turn is vital in the synthesis of organic semiconductors. In this work, it was found that the electrical conductivity depends on the concentration of the metal in the sample more than on the nature of the metal, as indicated by the highly conductive copper compounds. All the chelates and polychelates studied were substances with high electrical resistance. On the basis of their absorption spectra,

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1. BEREZKIN, VS. A.

2. USSR (600)

4. Physics and Mathematics

7. Dynamics of the Sea, Vs A. Berezkin (Leningrad, Hydromet Press, 1947). Reviewed by V.V. Shuleykin, Sov. Kniga, No. 2, 1949.

9. [redacted] Report U-3081, 16 Jan. 1953, Unclassified.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.S.

The trip of "LITKE" in 1934. The Maritime Collection, No. 2, 1934.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

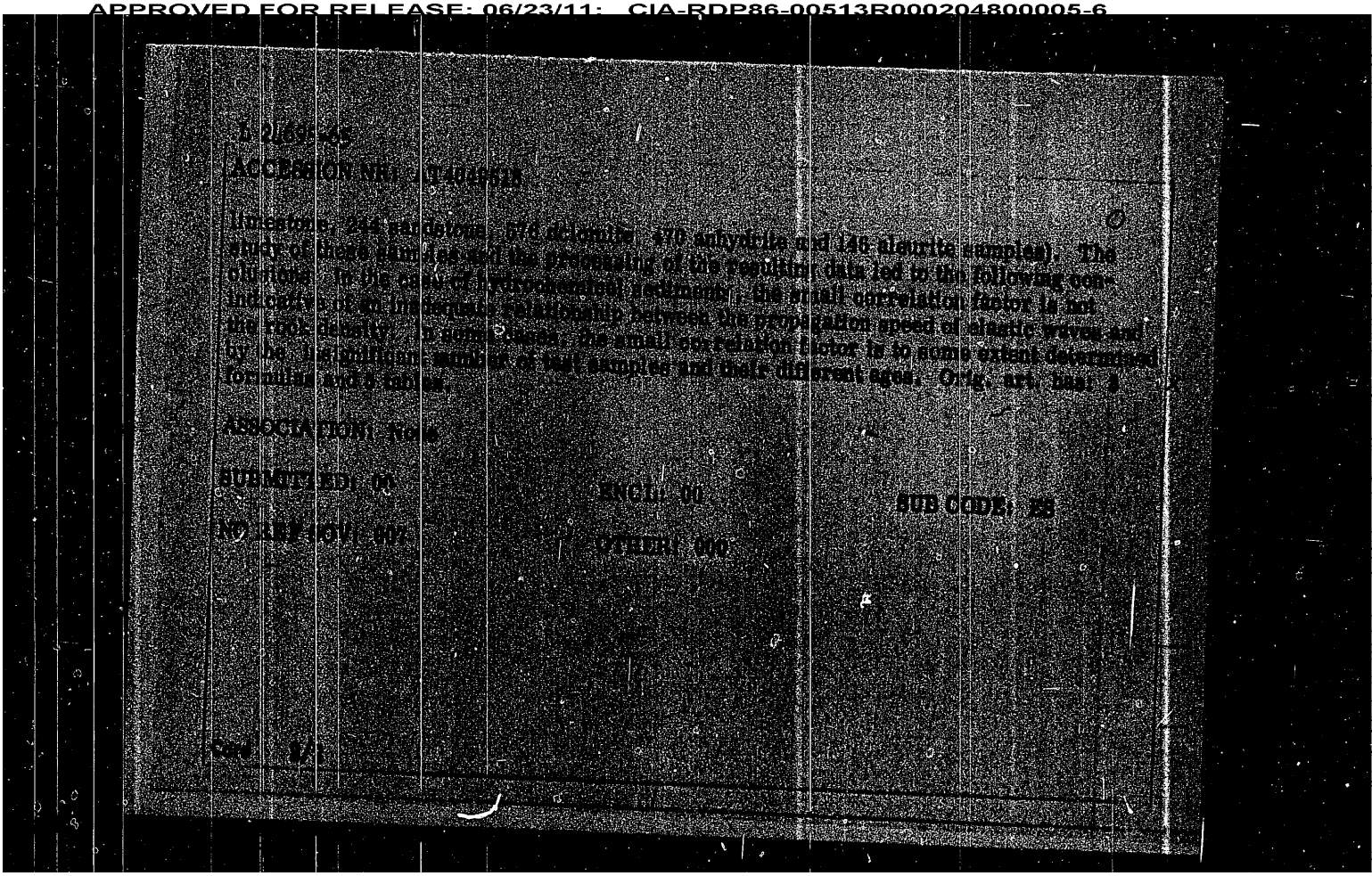
APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BERTSEKIN, V.M.; NEFEDOVA, N.Yu.

Determining the density of the intermediate layer using the methods of information theory and mathematical statistics. Razved. geofiz. no.5:39-46 '65. (MIRA 18:9)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6



L 2669-65
ACCESSION NR: AP4048618

Limestone, 244 sandstone, 276 dolomite, 170 anhydrite and 146 diorite samples). The study of these samples and the processing of the resulting data led to the following conclusions: In the case of hydrocarbonate sediments, the small correlation factor is not indicative of an increased relationship between the propagation speed of elastic waves and the rock density; in some cases, the small correlation factor is to some extent determined by the insignificant number of test samples and their different ages. Orig. art. has: 3

ASSOCIATION: None

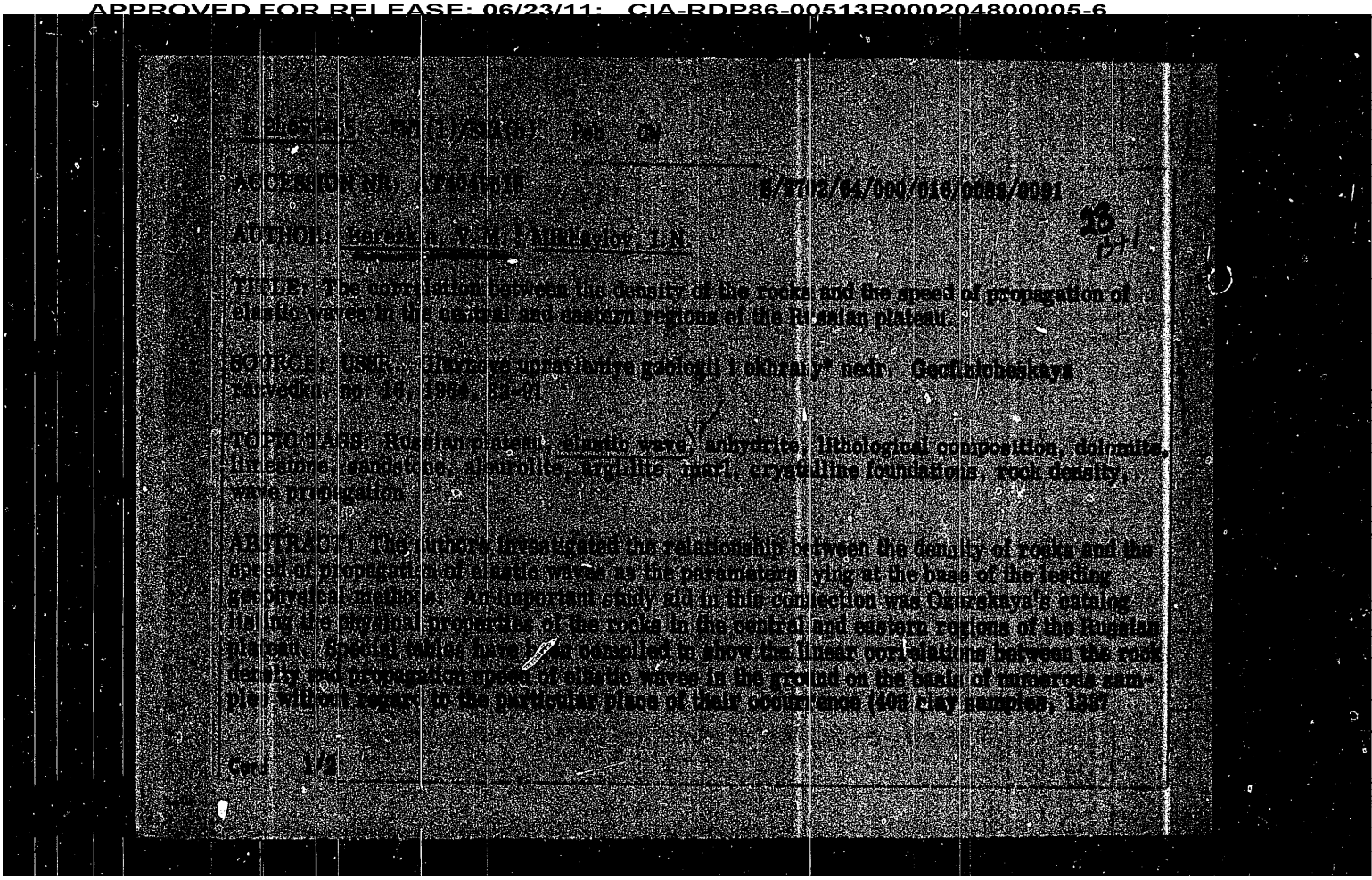
SUBMITTED: 00 ENCL: 00 SUB CODE: ES

NO REF SOV: 007 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6



ACCESSION NR: AP4040410 S/0203/64/004/003/0488/0491

AUTHOR: Barsukov, O. M.; Mikhaylov, I. N.

TITLE: The correlation between the density of the rocks and the speed of propagation of elastic waves in the central and eastern regions of the Russian platform

SOURCE: USSR. Glavnoye upravleniye geologii. Trudy*, nedr. Geofizicheskaya razvedka, no. 16, 1964, 54-61

TOPIC TAGS: Russian platform, elastic wave, anhydrite, lithological composition, dolomite, limestone, sandstone, aleurolite, argillite, marl, crystalline foundations, rock density, wave propagation

ABSTRACT: The authors investigated the relationship between the density of rocks and the speed of propagation of elastic waves as the parameters lying at the base of the leading geophysical methods. An important study all in this connection was Ogiyevskaya's catalog listing the physical properties of the rocks in the central and eastern regions of the Russian platform. Special tables have also compiled to show the linear correlation between the rock density and propagation speed of elastic waves in the ground on the basis of numerous samples with data relating to the particular place of their occurrence (408 clay samples, 1287

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.M.

Relationship between the density of rocks and the propagation velocity of the elastic waves in them. Razved. i prom. geofiz. no.49:86-87 '63
(MIRA 17:1)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.M.

Practice in determining the density of an intermediate layer using gravimetric data. Geofiz.razv. no.13:81-86 '63. (MIRA 17:4)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.M.; BUDANOV, V.G.; GERENBLAT, N.M.; YEVDOKIMOV, Yu.S.

High-precision gravimetric survey over the petroleum and gas bearing structures of the northern Caucasus. Razved. i prom. geofiz. no.50:60-66 '63. (MIRA 18:3)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.M.

Radius for calculating the effect of relief in gravity prospecting.
Razved. i prom. geofiz. no.39:54-60 '61. (MIRA 15:3)
(Gravity prospecting)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.M.

Nomograms showing the effect of relief on gravimeter readings based on relative altitudes at characteristic points. Izv. vys. uchob. zav.; geol. i razv. no.11:116-122 N '60. (MIRA 14:2)

1. Moskovskiy geologorazvedochnyy institut im. S.Ordzhonikidze.
(Gravimeter (Geophysical instrument))

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.M.

Calculating the effect of relief on gravimeter readings according to relative altitudes at given points. Izv. vys. ucheb. zav.; geol. i razved. 3 no. 10:102-109 O '60. (MIRA 13:12)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze.
(Gravimeter (Geophysical instrument))

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.M.

Calculating corrections for surface configuration of the terrain to the measured values of gravity acceleration. Trudy MGRI 36:112-119 '59. (MIRA 15:5)

(Gravity prospecting)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V. M., Candidate of Tech Sci (diss) -- "A new method of computing the effect of topography on the indications of gravimeters". Moscow, 1959. 15 pp (Min Higher Educ USSR, Moscow Geological-Prospecting Inst im S. Ordzhonikidze), 110 copies (KL, No 21, 1959, 114)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, Vasiliy Ivanovich; KRAYEV, Konstantin Alekseyevich; YABLOKOV, V.I., red.

[Equipment for garages and service stations] Oborudovanie dlia garazhei i stantsii obsluzhivaniia avtomobilei. Izd.2., perer. i dop. Moskva, Transport, 1964. 402 p. (MIR 17:7)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V., sud'ya vsesoyuznoy kategorii

Unification of requirements. Za rul. 17 no.8:26 Ag '59.
(MIRA 12:12)

(Automobile racing)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, Vasiliy Ivanovich; KRASNOV, Konstantin Alekseyevich; MARTENS, S.L., red.; MAL'KOVA, N.V., tekhn.red.

[Equipment for garages and stations servicing automobiles] Oborudovanie dlia garazhei i stantsii obsluzhivaniia avtomobilei. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1959. 273 p. (MIRA 12:5)
(Garages--Equipment and supplies)
(Service stations--Equipment and supplies)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.

BEREZKIN, V., sud'ya vsesoyuznoy kategorii.

Cross-country race championship of the U.S.S.R. Avt. transp. 35 no.12:26 D '57. (MIRA 11:1)
(Rostov-on-Don--Automobile racing)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.

BEREZKIN, V., inzh.

The 426-type hydraulic jack used in garages. Avt.transp. 35 no.2:22-23 F '57. (MIRA 10:12)
(Hydraulic jacks)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.; PLOTNIKOV, Yu.

Driving competitions of young people. Za rul. 15 no.2: 8 F '57. (MLRA 10:5)

1. Direktor Moskovskogo gorodskogo kluba yunykh avtomobilistov (for Plotnikov).
(Juvenile automobile drivers--Competitions)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, Vasiliy Ivanovich; POSTEL'NIKOV, Sergey Sergeyevich; YEFREMOVA, Ye.V., redaktor; ANDRIANOV, B.I., tekhnicheskiy redaktor

[Automobile races] Avtomobil'nye sorevnovaniia. Izd. 2-oe, ispr. i dop. Moskva, Izd-vo DOSAAF, 1957. 127 p. (MLRA 10:9)
(Automobile racing)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.; ZHERNOVKOV, A.

Modernization of the ignition control instruments. Avt. transp. 34 no.12:12-13 D '56. (MLRA 10:2)

(Automobiles--Ignition)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V., inzhener; ZHERNOVKOV, A., inzhener.

Compressometer. Za rul. 14 no.5:18 Ag '56. (MLRA 10:1)
(Automobiles--Engines--Testing)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V., inzhener; PLITMAN, I., inzhener.

The operating characteristics of the TA-49 taximeter.
Avt. transp. 34 no.7:20-21 Jl '56. (MLRA 9:10)

(Taxicabs)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V., inzhener.

Mobile hydraulic console lift. Avt.transp.34 no.2:22 F '56.
(Hoisting machinery) (MLRA 9:7)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, Vasiliy Ivanovich; POSTEL'NIKOV, Sergey Sergeyevich; PAPMEL', S.V., redaktor; MANINA, M.P., tekhnicheskiy redaktor.

[Competitions in expert automobile driving; under city conditions and for skill in figure driving] Sorevnovaniia na masterstvo vozhdeniia avtomobilia; v gorodskikh usloviiakh i na masterstvo figurnogo vozhdeniia. Izd. 2-oe, ispr. i dop. Moskva, Ges. izd-vo "Fizkul'tura i sport", 1956. 87 p. (MIRA 9:6)
(Automobile drivers)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V., inzhener.

Modernized and new garage equipment. Avt.transp. 33 no.3:36 Mr '55. (MIRA 8:5)
(Garages)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.I.

Sorevnovaniia na masterstvo vozhdeniia avtomobilia (Competition for mastery in automobile driving). Moskva, "Fizkul'tura i sport," 1953. 63 p.

SO: Monthly List of Russian Accessions, Vol 7, No 9, Dec 1954

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.

Motorcycle Racing

On a motorcycle. Mol, kolkh. no. 2, 1952

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.I.

POSTEL'NIKOV, S.S.; BEREZKIN, V.I.; VINOGRADOV, A., redaktor; ZHURAVLEV, A., tekhnicheskiy redaktor.

[Automobile racing] Avtomobil'nye sorevnovaniia. Moskva, Izd-vo DOSAAF, 1952. 108 p. [Microfilm] (MLRA 7:11)
(Automobile racing)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

PA 16/49T41

BEREZKIN, V.

USSR/Engineering Sep 48
Automobile Industry
Piston Cylinders

"Industrial Inventors," V. Berezkin, Engr, 1½ pp

"Avtomobil'" No 9

Describes: (1) machine for boring cylinders of automobile cylinder blocks; (2) machine for boring cylinders of new model cars (GAZ-51), photograph; (3) appliances for boring crank and connecting rod bearings, photograph and sketch. All tools were introduced by GARO (Garage and Auto Repair Equipment Trust).

16/49T41

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.

PA 16/49T35

USSR/Engineering Aug 48
Bearings
Casting, Centrifugal

"Equipment for Centrifugal Casting of Bearings," V. Berezkin, Engr, 1 p

"Avtomobil'" No 8

Describes machine with diagrams. Lists principal dimensions and performance figures.

16/49T35

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BERENZKIN, V., inzhener.

The new GARO battery charging switch. Avtomobil' 25 no.7:11 Jl '47.
(MLRA 6:9)
(Storage batteries)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

PA 12T23

BEREZKIN, V.

USSR/Vulcanizing Equipment
Tires - Repairing

May 1947

"Portable Vulcanizing Equipment," V. Berezkin, Engr, 1 p

"Avtomobil'" Vol XXV, No 5

Demand for vulcanizing equipment not being met. Requires use of portable equipment being made by the "Krasnyy Oktyabr'" factory of the GARO combine. Diagram, photograph and description of operation. Weighs 133 kg and can be handled by two men.

12T23

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BEREZKIN, V.I., tekhnik.

Increasing the capacity of two-chamber saturators used in the chemical purification of water. Energetik 4 no.3:18 Mr '56. (Water--Purification) (MLRA 9:6)

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shielded from the radiation with lead). The weight of polymer formed was measured as a function of irradiation time. The kinetics of the process are adequately described by the Roginskiy-Zel'dovich equation for adsorption on an inhomogeneous surface

$$\frac{dq}{dt} = ae^{-bq} \quad \text{or} \quad q = \frac{1}{b}[\ln(t + t_0) - \ln t_0], \qquad (1)$$

where

$$t_0 = \frac{1}{ab}.$$

From the data obtained it is concluded that the surface which actually takes part in the grafting process is inhomogeneous. Orig. art. has: 1 figure and 1 formula.

SUB CODE: 07/ SUBM DATE: 26May65/ ORIG REF: 000/ OTH REF: 001

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L 29538-66 EWT(m)/EWP(j)/T IJP(c) WW/GG/RM

ACC NR: AP6007777 SOURCE CODE: UR/0195/66/007/001/0187/0187

41
B

AUTHOR: Berezkin, V. G.; Kolbanovskiy, Yu. A.; Kyazimov, E. A.

ORG: Institute of Petrochemical Synthesis im. A. V. Topchiyev, AN SSSR (Institut neftekhimicheskogo sinteza AN SSSR)

TITLE: Kinetics of radiation polymerization of acrylonitrile from the gas phase on a mineral substrate 14

SOURCE: Kinetika i kataliz, v. 7, no. 1, 1966, 187

TOPIC TAGS: acrylonitrile, radiation polymerization, absorption

ABSTRACT: The kinetics of graft polymerization of acrylonitrile initiated with Co^{60} gamma radiation was studied. The reaction was conducted with a view to modifying the properties of INZ-600 brick which is widely used as a carrier in gas-liquid chromatography. A powdered form of this material in a glass ampoule was subjected to heat treatment at 300° and a pressure of 10^{-2} mm Hg for 3-4 hr; a second ampoule containing the degassed monomer was connected to the first ampoule so that during the irradiation the powder was in acrylonitrile vapor (the liquid acrylonitrile was

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ALISHOYEV, V.R.; BEREZKIN, V.G.; MEL'NIKOVA, Yu.V.

Effect of phase transitions in the stationary phase on the chromatographic characteristics of the eluates. Zhur. fiz. khim. 39 no. 1:200-202 Ja '65 (MIRA 19:1)

1. Institut neftekhimicheskogo sinteza AN SSSR. Submitted January 13, 1964.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

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BEREZKIN, V.G.; MISAK, A.Ya.; POLAK, L.S.

Gas chromatographic analysis of mixtures of organic compounds with a colective determination of alcohols. Zav. lab. 31 no.3: 282-284 '65. (MIRA 18:12)

1. Institut neftekhimicheskogo sinteza AN SSSR.

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HEREZKIN, V.G.; GORSHUNOV, O.L.; GEYDERIKH, M.A.

Use of gas chromatography for studying polymer compounds.
Plast. massy no.11:53-57 '65. (MIRA 18:12)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.G.; PAKHOMOV, V.P.; ALISHOYEV, V.R.; STAROBINETS, L.L.; MARKOVICH, Z.P.; SEDOV, L.N.

Some new methods of studying polymeric compounds by gas chromatography. Vysokom.soed. 7 no.1:185-187 Ja '65. (MIRA 18:5)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.G.; ALISHOYEV, V.R.; YERSHOVA, S.N.; TUTORSKIY, I.A.

Effect of the viscosity of stationary liquid phase on the broadening of chromatographic zone. Izv. AN SSSR. Ser. khim. no.9:1711-1712 '65. (MIRA 18:9)

1. Institut neftekhimicheskogo sinteza imeni A.V. Topchiyeva AN SSSR.

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BEREZKIN, V.G., kand. khim. nauk; VITT, S.V., kand. khim. nauk

Symposium on gas chromatography held in Berlin. Vest. AN SSSR 35 no.9:92 '65. (MIRA 18:9)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.G.; GORSHUNOV, O.L.

Analytical reaction gas chromatography. Usp. khim. 34 no.6: 1108-1126 Je '65. (MIRA 18:7)

1. Institut neftekhimicheskogo sinteza AN SSSR.

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BELIKOVA, N.A.; PLATE, A.F.; TABRINA, G.M.; STERIN, Kh.Ye.; LUKASHINA, V.M.; PAKHOMOV, V.P.; BEREZKIN, V.G.

Isomeric transformations of unsaturated hydrocarbons of the bicyclo (2,2,1) heptane series in the presence of calcium amide and an aluminochromium catalyst. Zhur.org.khim. 1 no.3:506-513 Mr '65. (MIRA 18:4)

1. Moskovskiy gosudarstvennyy universitet, Institut neftekhimicheskogo sinteza AN SSSR i Komissiya po spektroskopii AN SSSR.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

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ALISHOYEV, V.R.; BEREZKIN, V.G.

Development chromatography in columns with a moving sorbent.
Dokl. AN SSSR 155 no. 4:876-879 Ap '64. (MIRA 17:5)

1. Institut neftekhimicheskogo sinteza AN SSSR. Predstavleno akademikom V.A.Karginym.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

CHEKMAREVA, I.B.; TRUBNIKOV, V.I.; BEREZKIN, V.G.

Chromatographic analysis of the products of vapor-phase oxidizing ammonolysis of quinoline. Zhur. anal. khim. 19 no.3:395-396 '64. (MIRA 17:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut i Institut neftekhimicheskogo sinteza imeni Topchiyeva AN SSSR, Moskva.

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NAMETKIN, N.S.; SHUINOVA, N. Ya.; EEREZKIN, V.G.

Gas-liquid chromatography of some unsaturated organosilicon compounds. Izv. AN SSSR Ser. khim. no.11:2080-2082 N '64
(MIRA 18:1)

1. Institut neftekhimicheskogo sinteza im. A.V. Topchiyeva AN SSSR.

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BEREZKIN, V.G.; MYSAK, A.Ye.; POLAK, L.S.

Determination of oxygen by means of a flame-ionization detector. Izv. AN SSSR. Ser. khim. no.10:1871-1873 O '64. (MIRA 17:12)

1. Institut neftekhimicheskogo sinteza AN SSSR.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.G.; MYSAK, A Ye.; POLAK, L.S.

Use of sodium-aluminum hydrides for determining water traces.
Khim. i tekh. topl. i masel 9 no. 2:67-70 F '64. (MIRA 17:4)

1. Institut neftekhimicheskogo sinteza AN SSSR.

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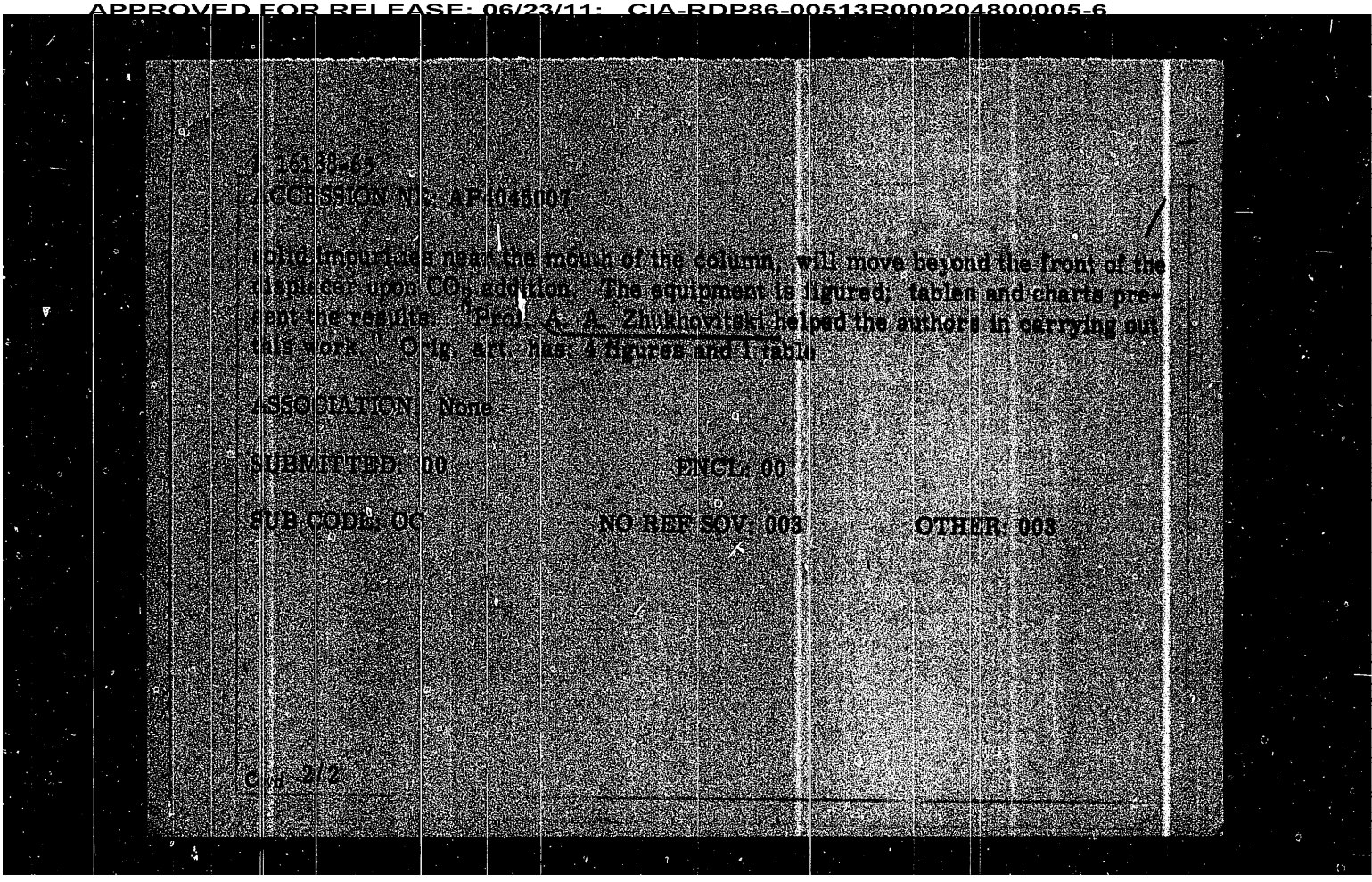

L 16133-65
ACCESSION NR: AP4048007

Dirt impurities near the mouth of the column, will move beyond the front of the stable cer upon CO_2 addition. The equipment is figured, tables and charts present the results. Prof. G. A. Zhukhovitskiy helped the authors in carrying out this work. Orig. art. has: 4 figures and 1 table.

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00

SUB CODE: OC NO REF SOV: 003 OTHER: 003

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L 10186-63 EWT(m)/BDS/ES(c)/EWP(j)/T Pc-4/Pr-4 RM
ACCESSION NR: AP4046007 S/0065/64/000/009/0066/0068

AUTHOR: Mirzayanov, V. S.; Berezkin, V. G.; Proskurnova, Ye. G.; Pakhomov, V. P.

TITLE: Preparation of highly purified ethylene

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 9, 1964, 66-68

TOPIC TAGS: ethylene, purified ethylene, ethylene purification, pure ethylene yield, displacer chromatography, gas carrier, ethylene desorption, ethylene impurity, solid impurity, ethylene purifying equipment

ABSTRACT: A new method based on displacer chromatography without a gas carrier has been used to obtain ethylene with no more than 0.001% impurities at a 30% yield. The chromatographic column is filled with ethylene (55 liter) then forms the displacer, a CO_2 current, which desorbs the pure ethylene. The first ethylene portions containing poorly adsorbing impurities (O_2, N_2, CO, CH_4, etc) are discarded; the pure ethylene collects in the container. Solid impurities, C_3-C_4 with higher Henry coefficients than ethylene, which form a general zone of

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.G.; KRUGLIKOVA, V.S.

Structural characteristics of interaction between the compound being chromatographed and the sationary phase. Izv. AN SSSR. Ser. khim. no.8:1505-1507 Ag '64. (MIRA 17:9)

1. Institut neftekhimicheskogo sinteza im. A.V. Topchiyeva AN SSSR.

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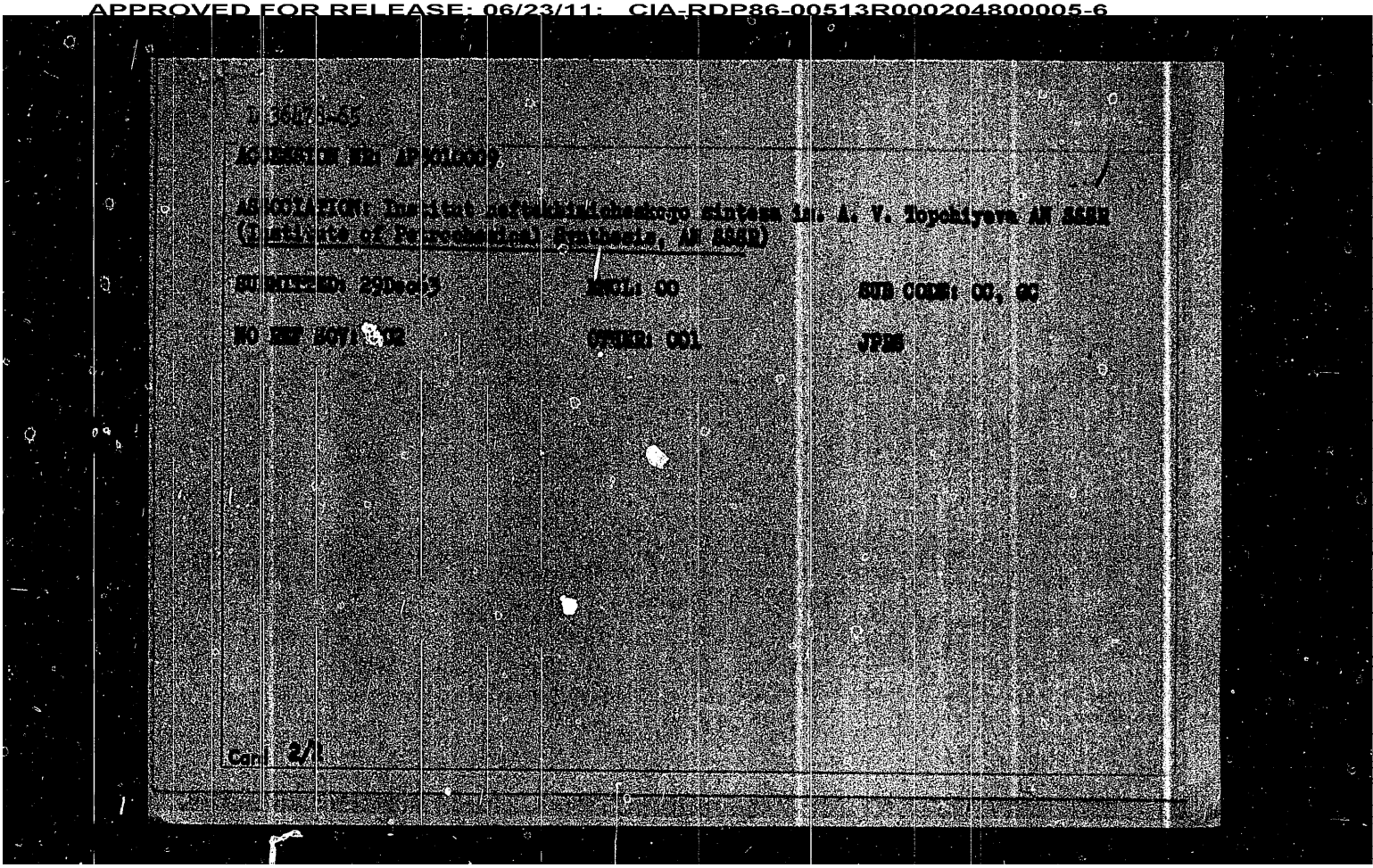

U 36873-65

AC NR: AP5010009

AUTHOR: Ivanitskiy, Ye. A.; Kotel'nikov, A. R.; Kozhevnikov, G. N.; Topchiyev, A. V.

ORG: Institute of Petrochemical Synthesis, AN SSSR

TITLE: Synthesis of 1,3-dienes by the dehydrogenation of alkenes

SOURCE: Neftekhimiya, v. 5, no. 1, 1965, 3-8

TOPIC TAGS: dehydrogenation, alkene, diene, butadiene, isoprene, piperylene, catalyst, chromium oxide, aluminum oxide, potassium oxide, zinc oxide, magnesium oxide, calcium oxide, iron oxide, nickel oxide, cobalt oxide, copper oxide, manganese oxide, vanadium oxide, molybdenum oxide, tungsten oxide, uranium oxide, thorium oxide, cerium oxide, lanthanum oxide, praseodymium oxide, neodymium oxide, samarium oxide, europium oxide, gadolinium oxide, terbium oxide, dysprosium oxide, holmium oxide, erbium oxide, thulium oxide, ytterbium oxide, lutetium oxide, yttrium oxide, scandium oxide, titanium oxide, zirconium oxide, hafnium oxide, niobium oxide, tantalum oxide, rhenium oxide, ruthenium oxide, rhodium oxide, palladium oxide, silver oxide, cadmium oxide, indium oxide, tin oxide, antimony oxide, bismuth oxide, lead oxide, boron oxide, silicon oxide, germanium oxide, arsenic oxide, selenium oxide, tellurium oxide, fluorine oxide, chlorine oxide, bromine oxide, iodine oxide, sulfur oxide, nitrogen oxide, phosphorus oxide, carbon oxide, hydrogen oxide, oxygen oxide, helium oxide, neon oxide, argon oxide, krypton oxide, xenon oxide, radon oxide, francium oxide, radium oxide, actinium oxide, protactinium oxide, neptunium oxide, plutonium oxide, americium oxide, curium oxide, berkelium oxide, californium oxide, einsteinium oxide, fermium oxide, mendelevium oxide, nobelium oxide, lawrencium oxide, rutherfordium oxide, dubnium oxide, seaborgium oxide, bohrium oxide, hassium oxide, meitnerium oxide, darmstadtium oxide, roentgenium oxide, copernicium oxide, ununtrium oxide, flerovium oxide, ununpentium oxide, livermorium oxide, ununseptium oxide, ununoctium oxide, ununennium oxide, unbinilium oxide, unbiunium oxide, unbibium oxide, unbitrium oxide, unbiquadium oxide, unbipentium oxide, unbihexium oxide, unbiseptium oxide, unbioctium oxide, unbiennium oxide, trinilium oxide, triunium oxide, tribium oxide, tritrium oxide, triquadium oxide, tripentium oxide, trihexium oxide, triseptium oxide, trioctium oxide, triennium oxide, quadnilium oxide, quadunium oxide, quadbium oxide, quadtrium oxide, quadquadium oxide, quadpentium oxide, quadhexium oxide, quadseptium oxide, quadoctium oxide, quadennium oxide, pentnilium oxide, pentunium oxide, pentbium oxide, pentrium oxide, pentquadium oxide, pentpentium oxide, penthexium oxide, pentseptium oxide, pentoctium oxide, pentennium oxide, hexnilium oxide, hexunium oxide, hexbium oxide, hextrium oxide, hexquadium oxide, hexpentium oxide, hexhexium oxide, hexseptium oxide, hexoctium oxide, hexennium oxide, septnilium oxide, septunium oxide, septbium oxide, septrium oxide, septquadium oxide, septpentium oxide, septhexium oxide, septseptium oxide, septoctium oxide, septennium oxide, octnilium oxide, octunium oxide, octbium oxide, octrium oxide, octquadium oxide, octpentium oxide, octhexium oxide, octseptium oxide, octoctium oxide, octennium oxide, ennilium oxide, enunium oxide, enbium oxide, entrium oxide, enquadium oxide, enpentium oxide, enhexium oxide, enseptium oxide, enoctium oxide, ennennium oxide

ABSTRACT: Dehydrogenation of alkenes to 1,3-dienes was studied in the presence of chromium oxide catalysts on aluminum oxide with potassium oxide, zinc oxide, magnesium oxide, calcium oxide, iron oxide, nickel oxide, cobalt oxide, copper oxide, manganese oxide, vanadium oxide, molybdenum oxide, tungsten oxide, uranium oxide, thorium oxide, cerium oxide, lanthanum oxide, praseodymium oxide, neodymium oxide, samarium oxide, europium oxide, gadolinium oxide, terbium oxide, dysprosium oxide, holmium oxide, erbium oxide, thulium oxide, ytterbium oxide, lutetium oxide, yttrium oxide, scandium oxide, titanium oxide, zirconium oxide, hafnium oxide, niobium oxide, tantalum oxide, rhenium oxide, ruthenium oxide, rhodium oxide, palladium oxide, silver oxide, cadmium oxide, indium oxide, tin oxide, antimony oxide, bismuth oxide, lead oxide, boron oxide, silicon oxide, germanium oxide, arsenic oxide, selenium oxide, tellurium oxide, fluorine oxide, chlorine oxide, bromine oxide, iodine oxide, sulfur oxide, nitrogen oxide, phosphorus oxide, carbon oxide, hydrogen oxide, oxygen oxide, helium oxide, neon oxide, argon oxide, krypton oxide, xenon oxide, radon oxide, francium oxide, radium oxide, actinium oxide, protactinium oxide, neptunium oxide, plutonium oxide, americium oxide, curium oxide, berkelium oxide, californium oxide, einsteinium oxide, fermium oxide, mendelevium oxide, nobelium oxide, lawrencium oxide, rutherfordium oxide, dubnium oxide, seaborgium oxide, bohrium oxide, hassium oxide, meitnerium oxide, darmstadtium oxide, roentgenium oxide, copernicium oxide, ununtrium oxide, flerovium oxide, ununpentium oxide, livermorium oxide, ununseptium oxide, ununoctium oxide, ununennium oxide, unbinilium oxide, unbiunium oxide, unbibium oxide, unbitrium oxide, unbiquadium oxide, unbipentium oxide, unbihexium oxide, unbiseptium oxide, unbioctium oxide, unbiennium oxide, trinilium oxide, triunium oxide, tribium oxide, tritrium oxide, triquadium oxide, tripentium oxide, trihexium oxide, triseptium oxide, trioctium oxide, triennium oxide, quadnilium oxide, quadunium oxide, quadbium oxide, quadtrium oxide, quadquadium oxide, quadpentium oxide, quadhexium oxide, quadseptium oxide, quadoctium oxide, quadennium oxide, pentnilium oxide, pentunium oxide, pentbium oxide, pentrium oxide, pentquadium oxide, pentpentium oxide, penthexium oxide, pentseptium oxide, pentoctium oxide, pentennium oxide, hexnilium oxide, hexunium oxide, hexbium oxide, hextrium oxide, hexquadium oxide, hexpentium oxide, hexhexium oxide, hexseptium oxide, hexoctium oxide, hexennium oxide, septnilium oxide, septunium oxide, septbium oxide, septrium oxide, septquadium oxide, septpentium oxide, septhexium oxide, septseptium oxide, septoctium oxide, septennium oxide, octnilium oxide, octunium oxide, octbium oxide, octrium oxide, octquadium oxide, octpentium oxide, octhexium oxide, octseptium oxide, octoctium oxide, octennium oxide, ennilium oxide, enunium oxide, enbium oxide, entrium oxide, enquadium oxide, enpentium oxide, enhexium oxide, enseptium oxide, enoctium oxide, ennennium oxide

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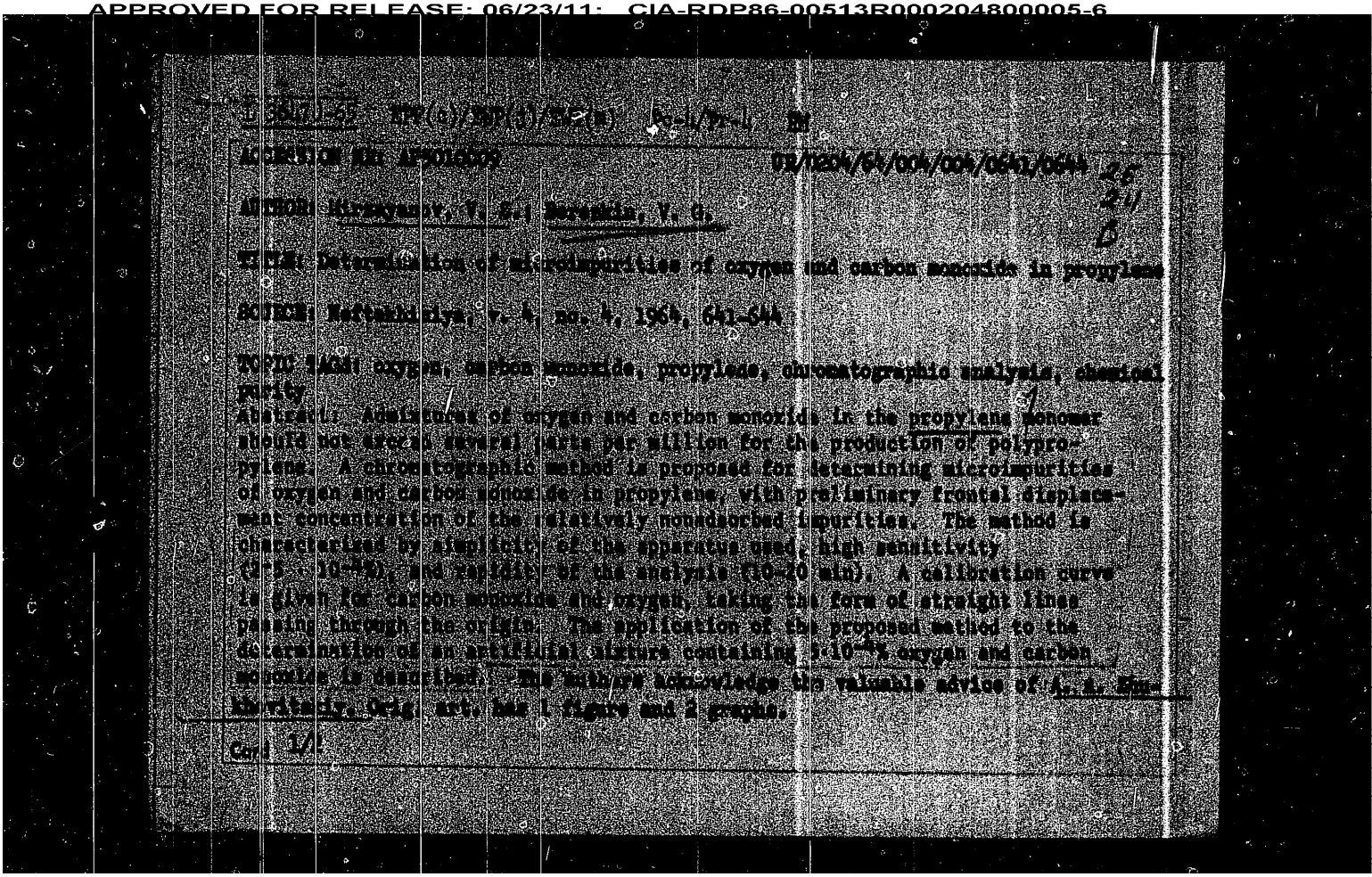

L 36471-65 EPF(c)/EWP(j)/EPA(w) Pc-4/Pr-4 RM

ACCESSION NR: AP5016509 UR/0204/64/004/004/0641/0644

AUTHOR: Kiryanov, V. I.; Seregina, V. G.

TITLE: Determination of microimpurities of oxygen and carbon monoxide in propylene

SOURCE: Neftekhimiya, v. 4, no. 4, 1964, 641-644

TOPIC TAGS: oxygen, carbon monoxide, propylene, chromatographic analysis, chemical purity

Abstract: Admixtures of oxygen and carbon monoxide in the propylene monomer should not exceed several parts per million for the production of polypropylene. A chromatographic method is proposed for determining microimpurities of oxygen and carbon monoxide in propylene, with preliminary frontal displacement concentration of the relatively nonadsorbed impurities. The method is characterized by simplicity of the apparatus used, high sensitivity ($2^{*}5 \cdot 10^{-4}$%), and rapidity of the analysis (10-20 min). A calibration curve is given for carbon monoxide and oxygen, taking the form of straight lines passing through the origin. The application of the proposed method to the determination of an artificial mixture containing $1 \cdot 10^{-4}$% oxygen and carbon monoxide is described. The authors acknowledge the valuable advice of A. A. Zhuravlev. Orig. art. has 1 figure and 2 graphs.

Card 1/1

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ACCESSION NR: AP4024410 ENCLOSURE: 02

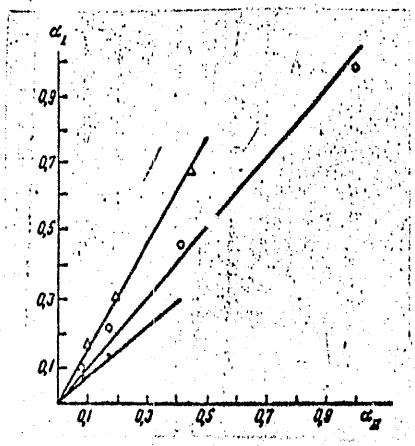

Fig. 2
Relationships between α_I at 75C and α_{II} at 50C. Designations the same as in fig. 1.

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ACCESSION NR: AP4024410

ENCLOSURE: 01

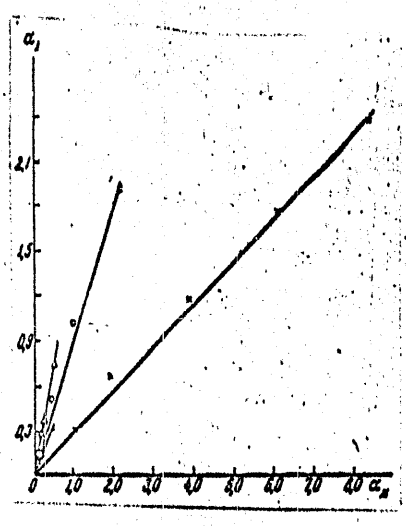
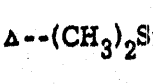


Fig. 1

Relationship between the relative retention capacity of silicohydrocarbons and paraffins on polymethylphenylsiloxane oil (α_I at 100C) and polyethyleneglycol (α_{II} at 75C).
x--compounds of the series $(CH_3)_3Si(CH_2)_nSi(CH_3)_3$;
O-- n-paraffins;
•--$(CH_3)_3Si(CH_2)_nCH_3$

Δ--$(CH_3)_2Si$  $(CH_2)_n$

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$$\lg \alpha_i = \sum_{gj} n_{gj} \Gamma_{gj} - \sum n_{gj} \Gamma_{gj},$$

where α_i = relative retention time; Γ_{gj} = value of $\lg \alpha_i$ corresponding to the determined combination of bonds or structural elements and n_{gj} = number of given structural elements in the molecule. The values for the CH_2 - CH_2 bond are practically the same for paraffins and for the silicohydrocarbons, and this is in agreement with the similarity of the physical and chemical properties of the tetraorganosilicon compounds and of the structurally similar hydrocarbons. Orig. art. has: 3 tables, 2 figures, 1 equation and 1 formula

ASSOCIATION: Institut neftekhimicheskogo sinteza AN SSSR im. A.V. Topchiyeva (Institute of Petrochemical Synthesis, AN SSSR)

SUBMITTED: 13May63 DATE ACQ: 17Apr64 ENCL: 02

SUB CODE: CH NR REF SOV: 009 OTHER: 003

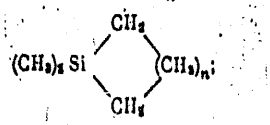
Card 3/5

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

ACCESSION NR: AP4024410

$(CH_3)_3Si(CH_2)_nSi(CH_3)_3$;



$(CH_3)_3Si(CH_2)_nCH_3$;

$CH_3(CH_2)_nCH_3$.

Comparison of the retention time in phases I and II at 100 and 75°, respectively, is shown in fig. 1: The $(CH_3)_3Si(CH_2)_nSi(CH_3)_3$ type compounds can be identified in mixtures with paraffins and other silicohydrocarbons. By lowering the temperatures of the chromatographic columns the selected phases I and II can be used to identify the other series of compounds (fig. 2). It is recommended that the elution characteristic be determined on the different stationary phases at different temperatures and not at the same temperature. The logarithm of the relative retention time of the silicohydrocarbons can be represented as the sum of the partial values corresponding to the specific bonds: (V.G. Berezkin and V.S. Kruglikova, Neftekhimiya, No. 6, 845 (1962)):

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ACCESSION NR: AP4024410 S/0204/64/004/001/0137/0141

AUTHORS: Nametkin, N.A.; Berezkin, V.G.; Vanyukova, N.Ya.; Vdovin, V.M.

TITLE: Gas-liquid chromatography of several silicohydrocarbons and paraffins.

SOURCE: Neftekhimiya, v. 4, no. 1, 1964, 137-141

TOPIC TAGS: gas liquid chromatography, paraffin, silicohydrocarbon, elution characteristic, retention time, chromatographic analysis

ABSTRACT: The elution characteristics of hydrocarbons and of silicohydrocarbons which are structurally similar analogs of the hydrocarbons were investigated in order to determine if mixtures of these materials can be identified chromatographically. The relative retention time of certain silicohydrocarbons and of paraffins on two stationary liquid phases of different polarity (polymethylphenylsiloxane (I) and polyethyleneglycol M.W. 154) (II)) was determined at different temperatures. The following homologous series of hydrocarbons and silicohydrocarbons were studied

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BEREZKIN, V.G.; MYSAK, A. Ye.; POLYAK, L.S.

Gas-chromatographic determination of water traces in hydrocarbons. Neftekhimiia 4 no.1:156-159 Ja-F'64 (MIRA 17:6)

1. Institut neftekhimicheskogo sinteza AN SSSR imeni A.V. Topchiyeva.

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BEREZKIN, V.G.; KRUGLIKOVA, V.S.; BELIKOVA, N.A.

Kinetics of bimolecular chemical reactions as studied by a pulse chromatographic technique. Dokl. AN SSSR 158 no.1:182-185 S-O '64 (MIRA 17:8)

1. Institut neftekhimicheskogo sinteza AN SSSR i Moskovskiy gosudarstvennyy universitet . Predstavlono akademikom V.N. Kondrat'yevym.

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BEREZKIN, V.G., kand.khim.nauk; SAKODYNSKIY, K.I., kand.khim.nauk

Fourth Symposium on Gaseous Chromatography. Vest. AN SSSR 33 no.9:76-77 S '63. (MIRA 16:9)
(Chromatographic analysis)

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MIRZAYANOV, V.S.; ZHUKHOVITSKIY, A.A.; BEREZKIN, V.G.; TURKEL'TAUB, N.M.

Frontal-displacement method for concentrating poorly adsorbed impurities. Zav. lab. 29 no.10:1166-1169 '63. (MIRA 16:12)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.G., POLAK, L.S., VIGDERGANZ, M.S., GOL'BERT, K.A.

Determination of micro-admixtures in olefins by gas chromatography.

Report presented at the 12th Conference on high molecular-weight compounds, devoted to monomers, Baku, 3-7 April 62

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BEREZKIN, V.G.; POLAK, L.S.

Methods of chromatographic analysis of C_7-C_{12} hydrocarbons. Trudy Kom.anal.khim. 13:205-209 '63. (MIRA 16:5)
(Hydrocarbons) (Chromatographic analysis)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.G.; SIDOROVA, N.V.

Calculation of the relative retention time of compounds in combined chromatographic columns. Neftekhimiia 3 no.1:144-148 Ja-F '63. (MIRA 16:2)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Chromatographic analysis)

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BELIKOVA, N.A.; BEREZKIN, V.G.; PLATE, A.F.

Synthesis of endo- and exo-2-methylbicyclo [2,2,1] heptanes. Steric directivity of the reaction of cyclopentadiene with propylene. Zhur.ob.khim. 32 no.9:2942-2951 S '62. (MIRA 15:9)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova i Institut neftekhimicheskogo sinteza AN SSSR.
(Cyclopentadiene) (Propene) (Bicycloheptane)

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BEREZKIN, V. G.; YANAK, Ya.[Janak, J.]

Introduction of a solid sample into the gas chromatograph.
Zav. lab. 28 no.12:1506-1507 '62. (MIRA 16:1)

1. Institut neftekhimicheskogo sinteza AN SSSR i Laboratoriya dlya analiza gazov Akademii nauk Chekhoslovatskoy Sotsialisticheskoy Respubliki.

(Gas chromatography)

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predict the composition of higher saturated hydrocarbons, for a constant concentration of radicals which are formed during the irradiation of liquid alkanes. Splitting off of an H atom from secondary C atoms is approximately 3 times more probable than from primary C atoms. The constant concentration of R_3, R_4 and R_5 at 300°K was also calculated, to determine the probability of cleavage of the H_3C-CH_2- and $-CH_2-CH_2-$ bonds and it was proved that for hydrocarbons with even and odd numbers of C-atoms the probability of cleavage along the CH_3-CH_2 bond is 5 times smaller than cleavage along the $-CH_2-CH_2-$ bond. There are 2 tables and 1 figure.

ASSOCIATION: Institut neftekhimicheskogo sinteza, AN SSSR (Institute of Petrochemical Synthesis, AS USSR)

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Investigations of the ...

tained were in good agreement with previously published views on the mechanism of radiolysis in the solid phase (DAN SSSR, 129, 1042 (1959)). Products obtained during irradiation of hexane with 10^{21} ev/g at room temperature make it possible to assume that formation of C_{13} hydrocarbons is accompanied by the addition of a CH_3-radical to the double bond of 2- and 3-hexanes and subsequent recombination of the C_6 and C_7 radicals. The higher products are isomeric and thus the ratio of the concentrations of primary radicals to the total of secondary radicals at constant concentrations of hexyl radicals can be calculated, by assuming that the concentration of the products in irradiated hexane is directly proportional to the rate of the individual recombination reactions. Identical values for the secondary radicals at 195 and 77°K indicate that the aggregate composition does not affect the ratio of concentrations of the radicals obtained during the cleavage of the C-H bonds. The degree of probability of radical cleavage of various bonds in the starting molecule was calculated to clarify the mechanism of primary processes during radiolysis and to be able to

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S/844/62/000/000/052/129
D287/D307

AUTHORS: Berezkin, V. G., Polak, L. S. and Shakhray, V. A.

TITLE: Investigations of the mechanism of formation of heavy radiolysis products of hexane in liquid and solid phases

SOURCE: Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khimii. Ed. by L. S. Polak. Moscow, Izd-vo AN SSSR, 1962, 312-316

TEXT: The C_9-C_{12} fractions, obtained during the radiolysis of hexane, were analyzed by gas-liquid chromatography, using the silicone oil ПФМС-4 (PFMS-4) as the stationary liquid phases. The experiments were carried out at 150°C, the efficiency of the 5 m long, 6 mm diameter column being approximately 3000 theoretical plates, N_2 was used as carrier (accuracy of analysis: ± 5%). Hexane samples irradiated with a dose of 1.7×10^{21} ev/g were subjected to preliminary concentration at -5°C. The degree of concentration of the samples varied within the limits 30 - 40. Experimental data ob-

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BEREZKIN, V.G.; KHUDLIKOVA, V.S.

Relation of the elution characteristics to the molecular structure of compounds in chromatographic analysis. Neftekhimiia 2 no.6:845-851 N-D '62. (MIRA 17:10)

1. Institut neftekhimicheskogo sinteza AN SSSR.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

BEREZKIN, V.G.; MYSAK, A.YE.; POLAK, L.S.

Radiolysis of n-hexane within the range of low integral doses (3.10^{18} - 1.10^{20} ev/ml). Dokl. AN SSSR 141 no.6:1397-1399 D '61. (MIRA 14:12)

1. Predstavleno akademikom A.V.Topchiyevym.
(Hexane) (Radiation)

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Peculiar features of gas...

S/020/61/140/001/014/024
B103/B101

ASSOCIATION: Institut neftekhimicheskogo sinteza Akademii nauk SSSR (Institute of Petrochemical Synthesis of the Academy of Sciences USSR)

PRESENTED: March 29, 1961, by A. V. Topchiyev, Academician

SUBMITTED: March 29, 1961

Fig. 1. Scheme of the chromatographic apparatus

Legend: (1) Flow meter, (2) device for introducing the sample, (3) chromatographic column, (4) converter, (5) recording device, (6) and (7) thermostats.

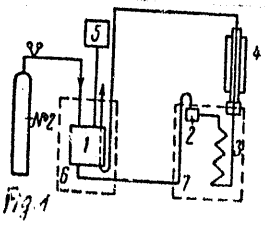

Fig. 1

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temperature is important for the separation of a certain hydrocarbon group and for the determination of the optimum duration of analysis. The given function permits a calculation of the relative α for an arbitrary temperature on the basis of the relative α known for a certain temperature. A limited number of experiments is necessary to determine K and β. The linear function of relative α also holds for other steady liquid phases and for other classes of compounds. From the basic equation $\log \alpha_i = \log (P_{st}/P_i) + \log \gamma_i$, and from $\Delta H = KT_{boil}$, the function $\log \alpha = K\Delta T_{boil}\left|^{-1}\right. + g$ or $\log \alpha_i = A \cdot T_{boil} + B$ can be derived, where P_{st} and P_i are the pressures of the saturated vapor of the standard and of the corresponding compound, respectively, at test temperature, and γ_i is the relative coefficient of activity. There are 4 figures, 1 table, and 7 references: 3 Soviet and 4 non-Soviet. The three references to English-language publications read as follows: Ref. 2: D. Whate, Nature, 179, 1075 (1957); Ref. 3: C. J. Hardy, F. H. Pollard, J. Chromatogr., 2, 1 (1959); Ref. 5: C. E. Green, Nature, 180, 295 (1957).

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Peculiar features of gas...

of hydrogen atoms in the molecule. (3) is 5 m long and has a diameter of 6 mm. A diatomite brick (fraction 0.2 - 0.3 mm) was impregnated with PFMS-4 oil (weight ratio 100 : 15). The relative retention time α was determined at 140°C for 35 hydrocarbons C_7 - C_{12}, predominantly for alkanes. It was found that at equal boiling point the α of aromatic compounds was much longer than that of alkanes. This is explained by a specific interaction between aromatic compounds and the phenyl groups of silicone oil. Therefore, the PFMS-4 oil is suitable for separating aromatic compounds from alkanes in fractions which had been produced earlier in a column with nonpolar, steady liquid phase. This oil separates the aromatic compounds much better than oil of the type AC (DS) (D. Jentzsch, G. Bergmann, Zs. analyt. Chem., 170, 239 (1959)), and it separates alkanes from aromatic hydrocarbons better than silicone E-301 (Ye-301) (A. A. Zhukhovitskiy, M. S. Semikina, N. M. Turkel'taub, Khimiya i tekhnologiya topliva masel, no. 11, 57 (1960)). The relative α in the same column at two different temperatures are connected by a linear relation: $\alpha(t_1) = K\alpha(t_2) + \beta$, where K and β are constants. The experiments were conducted at t_1 = 140°C and t_2 = 90°C. The proper choice of

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S/020/61/140/001/014/024
B103/B101

AUTHORS: Berezkin, V. G., and Polak, L. S.

TITLE: Peculiar features of gas - liquid chromatography of paraffins and aromatic hydrocarbons C_7 - C_{12}

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 140, no. 1, 1961, 115-117

TEXT: The authors describe the analytical methods for hydrocarbons C_7 - C_{12} with the use of the Soviet methyl phenyl polysiloxane oil ТФМС-4 (PFMS-4) (V. G. Berezkin, I. M. Kustanovich et al. DAN, 131, 593 (1960)). Fig. 1 shows the scheme of the chromatographic apparatus. Column (3) and flow meter (1) are controlled by a thermostat: (3) at elevated temperature, (1) at 30°C. Prior to (1), the hydrocarbon was converted. The composition of the mixture to be analyzed was calculated on the basis of

$$i = \left[(S_i/n_i)/(\sum_{z=1}^{q} S_z/n_z)\right] \cdot 100 \text{ (mole\%)},$$

where S_z is the area of the chromatographic peak and n_z a correction coefficient equal to the number

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S/065/61/000/004/002/011
E030/E235

Chromatography of C_5-C_7 Hydrocarbons Over the Surface Active Substance OP-7

16 references: 8 Soviet and 8 non-Soviet.

ASSOCIATION: In-t neftekhimicheskogo sinteza AN SSSR
(Institute of Petrochemical Synthesis AS USSR)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

S/065/61/000/004/002/011
E030/E235

Chromatography of C_5-C_7 Hydrocarbons Over the Surface Active Substance OP-7

(1-pentane) over the C_2 to C_7 range. C_5 mixtures are completely resolved. C_6 and C_7 are resolved with the exception of 2,3-dimethylbutane, and 2-methylpentane. C_3 and C_4 are resolved completely, but C_2 requires passing through a subsequent column containing silver nitrate solution on diatomaceous earth in the ratio 2:10. Using this technique, the separating efficiencies of other liquids could be compared, and n-hexatriacontane and benzyldiphenyl were tried. An activity coefficient $\gamma_{2,1}$ was defined as:

$$\gamma_{2,1} = \frac{1}{\alpha_{2,1}} \cdot \frac{P_1^\circ}{P_2^\circ},$$

where $\alpha_{2,1}$ was the degree of separation and P's are partial pressures of the substances being separated. On this ranking, separation of paraffin isomers was ranked as best for n-hexatriacontane ($\gamma_{2,1}$ = 0.95-0.91), then benzyldiphenyl ($\gamma_{2,1}$ = 0.69-0.68), and OP-7 ($\gamma_{2,1}$ = 0.59-0.54). There are 2 tables, 2 figures and

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S/065/61/000/004/002/011
E030/E235

Chromatography of C_5-C_7 Hydrocarbons Over the Surface Active Substance OP-7

OP-7 was selected because it is a readily available compound and, being surface active, should possess the chromatographic separation advantages of detergents, without the disadvantage of being ionic and hence requiring hermetically dry conditions. R is an alkyl group containing 9-10 carbon atoms, and n is about 6-7. The functional groups of each molecule include ethers, alcohols, and hydrocarbons, and should therefore confer great selectivity on separation of organic materials. The chromatograph was of the usual type, with diatomaceous earth as the inert phase, and a thermal conductivity detector coupled to a 10 mV 2.5 second response time recorder. The volume of the probe chamber was 0.5 mm, and the minimum quantity of material which could be analyzed was 1.10^{-3} ml, using helium as carrier gas. For a 10-15 component mixture 0.2 to 0.5 ml gas would be preferable for high sensitivity. The chamber could be heated to 150°C. A complete analysis lasted no longer than 40 minutes. The optimum gas velocity to give the greatest number of theoretical plates was determined to be 2.4 ml/sec. Residence times varied from 0.06 sec (C_2) to 10.02 sec.
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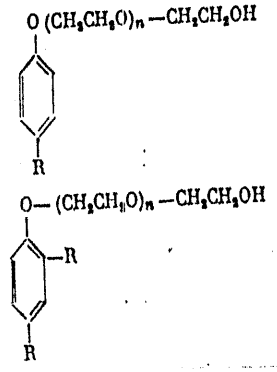
S/065/61/000/004/002/011
E030/E235

AUTHORS: Berezkin, V. G. and Polak, L. S.

TITLE: Chromatography of C_5-C_7 Hydrocarbons Over the Surface Active Substance OP-7 (OP-7)

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1961, No. 4, pp. 14-18

TEXT: The effectiveness of OP-7 as a stationary liquid phase in chromatography of hydrocarbons has been studied experimentally. The structure of OP-7 is:



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BEREZKIN, V.G.; POLAK, L.S.

Use of gas chromatography in the study of the kinetics of chemical reactions. Chromatographic analysis of the products of alkane radiolysis. Kin. i kat. 2 no.2:285-291 Mr-Ap '61. (MIRA 14:6)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Gas chromatography)
(Paraffins)
(Chemical reaction, Rate of)

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S/204/61/001/006/00?/???

Investigation of the recombination ... E075/E436

ASSOCIATION: Institut neftekhimicheskogo sinteza AN SSSR
MGU im. M.V.Lomonosova
Kafedra khimii nefti
(Institute of Petrochemical Synthesis AS USSR
MGU imeni M.V.Lomonosov
Department of Petrochemistry)

SUBMITTED: November 2, 1961

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800005-6

Investigation of the recombination ...

reactions

$$C_4H_8 + \overset{\circ}{H} \longrightarrow C_4\overset{\circ}{H}_9 \qquad (1)$$

$$C_4\overset{\circ}{H}_9 + C_6\overset{\circ}{H}_{13} \longrightarrow C_{10}H_{22} \qquad (2)$$

It was established that thermal hydrogen atoms join the unsaturated products leading to the formation of aliphatic radicals. It was shown that concentrations of R_2 and R_3 at +20°C is about 3.5 times that of R_1 and that the concentration of R_2 and R_3 are equal. At -77°C, $R_2/R_1 \approx R_3/R_1 \approx 2$ and $R_2 \cong R_3$. The quantity of n-dodecane ($R_1 + R_1$) formed was 10 times less than that of products $R_1 + R_2$ and $R_1 + R_3$ at 20°C and 8 times less at -77°C, whilst the calculated concentration of R_1 was 3.5 and 2 times less than the concentrations of R_2 and R_3 respectively. By changing the temperature from +20 to -77°C the yield of isomers formed from the secondary radicals fell by 2.2 to 2.4 times and the yield of "primary" products almost did not change. There are 5 tables.

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4683

S/204/61/001/006/003/004
E075/E436

5.4600
11.1210

AUTHORS: Belikova, N.A., Berezkin, V.G., Polak, L.S.

TITLE: Investigation of the recombination products of alkyl radicals in the liquid phase radiolysis of n-hexane

PERIODICAL: Neftekhimiya, v.1, no.6, 1961, 828-835

TEXT: The authors investigated the composition of dimeric products formed on γ-radiolysis of pure liquid n-hexane, with and without the addition of butylene, at +20 and -77°C. Five isomers of dodecane were synthetized (four of them for the first time) and used as calibration standards in the analysis of the products resulting from the combination of the following radicals: R_1 $CH_3(CH_2)_4\dot{C}H_2$; R_2 $CH_3(CH_2)_3\dot{C}HCH_3$ and R_3 $CH_3(CH_2)_2CH\dot{C}H_2CH_3$. It was found that a decrease in the temperature of irradiation leads to a relative increase in the content of products of recombination of hexyl radicals with fragment radicals in C_9 - C_{12} fraction. For the radiolysis in the presence of butylene there was a sharp increase in the absolute and relative content of saturated C_{10} hydrocarbons (to 43 - 49%) in C_9 - C_{12} fraction. This effect was explained by the occurrence of the following

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BEREZKIN, V.G.; KRASHENINNIKOV, S.K.

Chromatographic systems and standardized units for gas chromatographs.
Neftekhimiia 1 no.5:700-705 S-O '61. (MIRA 15:2)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Gas chromatography)

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NOZHKINA, I.A.; BEREZKIN, V.G.

Conference on adsorption and methods of chromatographic analysis. Neftekhimiia 1 no.4:573-575 Jl-Ag '61. (MIRA 16:11)

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